

DERWENT-ACC-NO: 1978-G4096A

DERWENT-WEEK: 197833

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TITLE: Aircraft gas turbine testing - by controlling pressure chamber by-pass flow rate using rotor speed and engine by-pass rate

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PRIORITY-DATA: 1975SU-2199084 (December 17, 1975)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
SU 569890 A	October 22, 1977	N/A	000	N/A

INT-CL (IPC): G01M015/00

ABSTRACTED-PUB-NO: SU 569890A

BASIC-ABSTRACT:

The conventional method of testing by-pass gas turbines for aircraft which includes a supply of heated compressed air to the inlet of the pressure chamber ignores the interconnection between parameters which determine the variable working conditions, for example the rotor speed.

In an improved method, the flow rate of air by-passing the pressure chamber is varied in proportion to the rotor speed and to the flow rate of the air by-passing the engine. This is done by a control valve (7) which governs the flow rate of the side stream along the by-pass channel (6) into the exhaust diffuser (8) of the test bench.

TITLE-TERMS: AIRCRAFT GAS TURBINE TEST CONTROL PRESSURE CHAMBER BY-PASS FLOW RATE ROTOR SPEED ENGINE BY-PASS RATE

DERWENT-CLASS: S02